

**AMENDMENTS TO THE CLAIMS**

Please amend the claims as follows.

1. (currently amended) A steel manufacturing dust ~~solidified~~, which is a solid product formed by pressing and forming a dust, occurring in exhaust gases within a melting furnace during an iron and steel manufacturing process and subsequently collected by a dust collector, and containing[[],] iron as a principal component,~~iron occurring during an iron and steel manufacturing process.~~
2. (currently amended) The steel manufacturing dust ~~solidified~~ as claimed in claim 1, wherein the pressing and forming is caused by a mold.
3. (currently amended) The steel manufacturing dust ~~solidified~~ as claimed in claim 1, ~~which~~ wherein the solid dust product is a columnar body having a round cross-sectional shape.
4. (currently amended) The steel manufacturing dust ~~solidified~~ as claimed in claim 2, ~~which~~ wherein the solid dust product is 50 to 100 mm in diameter and 30 to 80 mm in height.
5. (currently amended) The steel manufacturing dust ~~solidified~~ as claimed in claim 4, ~~in which~~ wherein the ratio of the height relative to the diameter is within the range of 0.7 to 0.8.
6. (currently amended) A process of manufacturing a steel manufacturing dust ~~solidified~~, ~~in which~~ wherein a dust, occurring in exhaust gases within a melting furnace during an iron and steel manufacturing process and subsequently collected by a dust collector, and containing iron as a principal component,~~iron occurring during an iron and steel manufacturing process~~ is charged into and pressed within a mold to provide a solid product.
7. (currently amended) The process of manufacturing the steel manufacturing dust ~~solidified~~ as claimed in claim 6, wherein the mold is in the form of a vertically oriented cylindrical chamber.

8. (currently amended) The process of manufacturing the steel manufacturing dust ~~solidified~~ as claimed in claim 6, wherein a powder of carbon, aluminum or the like generated during the iron and steel manufacturing process is mixed in the dust as a binder, and is then charged into the mold.
9. (currently amended) A manufacturing apparatus for a steel manufacturing dust ~~solidified, which is operable to press and form a dust containing as a principal component iron occurring during an iron and steel manufacturing process to provide a solid product, which apparatus compris[es]]ing:~~
- a mold in the form of a cylindrical chamber[[],];
  - a lid member for closing one end of [[this]] the mold[[],]; and
  - a plunger capable of advancing from [[the]] an opposite end into the mold to press [[the]] a dust, occurring in exhaust gases within a melting furnace during an iron and steel manufacturing process and subsequently collected by a dust collector, and containing iron as a principal component, within the mold.
10. (currently amended) The manufacturing apparatus for the steel manufacturing dust ~~solidified~~ as claimed in claim 9, wherein the mold is oriented vertically and the end[[],] at which the lid member of [[this]] the mold is provided[[],] is [[on]] at a lower side.